//////ALPINE®

CDM-7871

FM/AM Compact Disc Receiver

- OWNER'S MANUAL
  Please read before using this equipment.

- MODE D'EMPLOI
  Veuillez lire avant d'utiliser cet appareil.

- MANUAL DE OPERACIÓN
  Léalo antes de utilizar este equipo.

COMPACT
disc
DIGITAL AUDIO
TEXT

CHA-S624

CHA-1214

CD changer for CDM-7871
Changeur CD pour CDM-7871
Cambiador de CD para CDM-7871

CHM-S620

Alpine CD Changers Give You More!

More musical selections, more versatility, more convenience.

An Alpine CD Changer adds more musical choices to your sound system. All models can be controlled from Alpine head units and deliver excellent sound quality. The CHA-S624 is a high-performance 6-disc changer with a new M DAC, Ai-NET compatibility, Optical Digital Output, 150 Disc Title Memory and CD TEXT. The CHA-1214 Ai-NET model holds 12 discs, and the CHM-S620 M-Bus model is a super-compact 6-disc changer.

Changeurs de CD Alpine : vous avez le choix!

Plus de sélections musicales, plus de souplesse, plus de confort.

Un changeur de CD Alpine permet d'augmenter la plage des sélections musicales de votre système embarqué. Tous les modèles peuvent être contrôlés à partir des autoradios Alpine et offrent une excellente qualité audio. Le modèle CHA-S624 est un changeur 6 disques ultra performant compatible Ai-NET et équipé d'un convertisseur N/A standard, d'une sortie optique numérique, d'une mémoire d'une capacité de 150 titres et de la fonction CD TEXT. Le modèle CHA-1214 Ai-NET peut contenir 12 disques. Le modèle CHM-S620 M-Bus est un changeur 6 disques super compact.

¡Los cambiadores Alpine de CD le ofrecen más!

Más selecciones musicales, más versatilidad y más ventajas.

Un cambiador Alpine de CD añade más opciones musicales a su equipo de sonido. Todos los modelos pueden controlarse desde las unidades principales de Alpine y proporcionar un sonido de calidad excepcional. El modelo CHA-S624 es un cambiador de 6 discos de alto rendimiento con el nuevo DAC "M" y compatibilidad con Ai-NET, salida digital óptica, memoria de títulos de 150 discos y TEXTO CD. El modelo CHA-1214 Ai-NET admite 12 discos y el modelo CHM-S620 Bus-M es un cambiador de 6 discos y tamaño reducido.

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LIMITED WARRANTY

⚠ WARNING

⚠ WARNING

This symbol means important instructions. Failure to heed them can result in serious injury or death.

DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.

Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.

KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISE WHILE DRIVING.

Failure to do so may result in an accident.

MINIMIZE DISPLAY VIEWING WHILE DRIVING.

Viewing the display may distract the driver from looking ahead of the vehicle and cause an accident.

DO NOT DISASSEMBLE OR ALTER.

Doing so may result in an accident, fire or electric shock.

USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.

Use for other than its designed application may result in fire, electric shock or other injury.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES.

Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS.

Doing so may cause heat to build up inside and may result in fire.

DO NOT PLACE HANDS, FINGERS OR FOREIGN OBJECTS IN INSERTION SLOTS OR GAPS.

Doing so may result in personal injury or damage to the product.

KEEP SMALL OBJECTS SUCH AS BATTERY OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

⚠ CAUTION

This symbol means important instructions. Failure to heed them can result in injury or material property damage.

HALT USE IMMEDIATELY IF A PROBLEM APPEARS.

Failure to do so may cause personal injury or damage to the product. Return it to your authorized Alpine dealer or the nearest Alpine Service Center for repairing.

⚠ PRECAUTIONS

Temperature

Be sure the temperature inside the vehicle is between +60°C (+140°F) and –10°C (+14°F) before turning your unit on.

Moisture Condensation

You may notice the CD playback sound wavering due to condensation. If this happens, remove the disc from the player and wait about an hour for the moisture to evaporate.

Damaged Disc

Do not attempt to play cracked, warped, or damaged discs. Playing a bad disc could severely damage the playback mechanism.

Maintenance

If you have problems, do not attempt to repair the unit yourself. Return it to your Alpine dealer or the nearest Alpine Service Station for servicing.

Never Attempt the Following

Do not grip or pull out the disc while it is being pulled back into the player by the automatic reloading mechanism.

Do not attempt to insert a disc into the unit when the unit power is off.
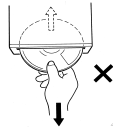
Inserting Discs

Your player accepts only one disc at a time for playback. Do not attempt to load more than one disc.

Make sure the label side is facing up when you insert the disc. Your player will automatically eject any disc that is inserted incorrectly. If the player continues to eject a correctly inserted disc, push the Reset switch with a pointed object such as a ball-point pen.

Playing a disc while driving on a very bumpy road may result in skips, but this will not scratch the disc or damage the player.

New Discs

As a protective measure to prevent the CD from jamming, the CD player will automatically eject discs with irregular surfaces or inserted incorrectly. When a new disc is inserted into the player and ejected after initial loading, using your finger, feel around the inside of the centre hole and outside edge of the disc. If you feel any small bumps or irregularities, this could inhibit proper loading of the disc. To remove the bumps, rub the inside edge of the hole and outside edge of the disc with a ball-point pen or other such instrument, then insert the disc again.
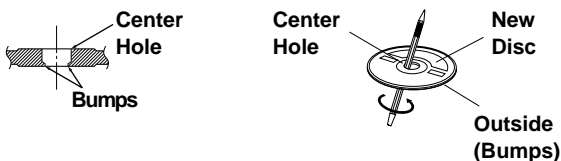
Irregular Shaped Discs

Be sure to use round shape discs only for this unit and never use any special shape discs.

Use of special shape discs may cause damage to the mechanism.

Installation Location

Make sure the CDM-7871 will not be installed in a location subjected to:

- Direct sun and heat
- High humidity and water
- Excessive dust
- Excessive vibrations

Handling the Detachable Front Panel

- Do not expose to rain or water.
- Do not drop or apply shock.

Correct Handling

Do not drop the disc while handling. Hold the disc so you will not leave fingerprints on the surface. Do not affix tape, paper, or gummed labels to the disc. Do not write on the disc.
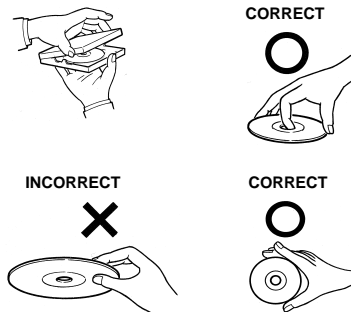
Disc Cleaning

Fingerprints, dust, or soil on the surface of the disc could cause the CD player to skip. For routine cleaning, wipe the playing surface with a clean, soft cloth from the centre of the disc to the outer edge. If the surface is heavily soiled, dampen a clean, soft cloth in a solution of mild neutral detergent before cleaning the disc.

Disc Accessories

There are various accessories available on the market for protecting the disc surface and improving sound quality. However, most of them will influence the thickness and/or diameter of the disc. Using such accessories can cause the disc to be out of standard specifications and may create operational problems. We recommend not using these accessories on discs played in Alpine CD players.

Basic Operation

POWER **BAND** **∧** **RESET** **MODE**

⏏

I◄◄ DN **►►I UP** **∨** **SETUP** **MUTE** **ANGLE ◆**
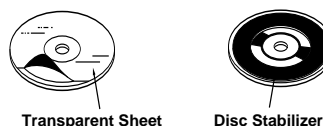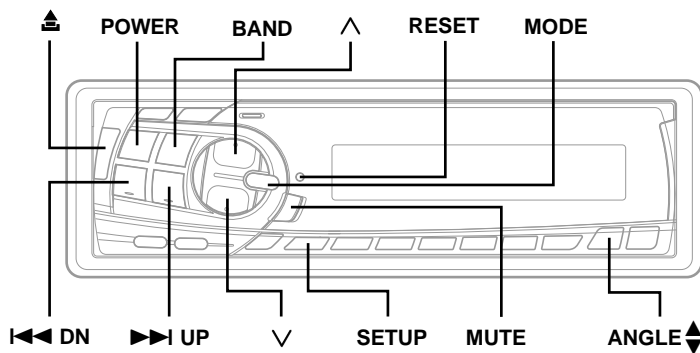
Detaching the Front Panel

1 Press and hold the **POWER** button for more than 3 seconds to turn off the power.

2 Press the ⏏ (Release) button at upper left side until the front panel pops out.

3 Grasp the left side of the front panel and pull it out.

NOTES
- *The front panel may become hot in normal usage (especially the connector terminals), this is not a malfunction.*
- *To protect the front panel, place it in the supplied carrying case.*

Attaching the Front Panel

1 First, insert the right side of the front panel into the main unit. Align the groove on the front panel with the projections on the main unit.

2 Push the left side of the front panel until it locks firmly into the main unit.
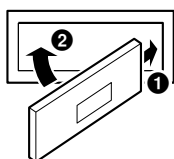
NOTE
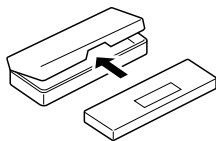*Before attaching the front panel, make sure that there is no dirt or dust on the connector terminals and no foreign object between the front panel and the main unit.*

- **Controllable with Remote Control**
  This unit can be controlled with an optional Alpine remote control. For details, consult your Alpine dealer.
  Point the optional remote control transmitter at the remote control sensor.

  Remote control sensor
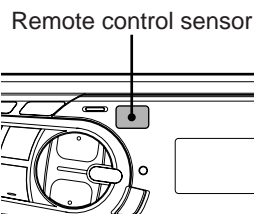
Initial System Start-Up

Immediately after installing or applying power to the unit, it should be initialized. Press the **RESET** switch with a ballpoint pen or any other pointed object.

Turning Power On and Off

1 Press the **POWER** button to turn on the unit.

NOTE
The unit can be turned on by pressing any other button except the eject ⏏ button.

The volume level gradually increases to the previous level you were listening to before the unit was turned off. Press and hold the **POWER** button for at least 3 seconds to turn off the unit.

NOTE
The first time power is turned on, the volume will start from level 12 and the unit will be in the tuner mode with BBE on.

Display Angle Adjustment
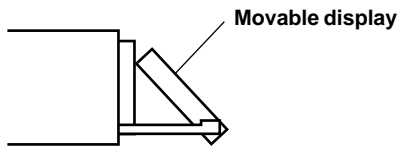
Movable display

The movable display may be adjusted to 3 different angles depending upon user preference.

1 Press the **ANGLE ▲▼** button to adjust the angle of the movable display.

NOTES
- *The display will close a half minute after the ignition key is turned to the OFF position.*
- *The adjusted angle of the display is stored in memory. There is no need to re-adjust the angle when the power is turned back on.*

CAUTION
Keep hands (or any other object) away from the display while it is opening or closing to avoid damage or injury. The back of the movable display will get very warm under normal operating conditions. This is not a malfunction. Do not touch.

Subwoofer On and Off

1 Press and hold the **SETUP** button for at least 3 seconds.

2 Press the **I◀◀ DN** or **▶▶I UP** button to select the Sub-w mode.

3 Press the **BAND** button to select Subwoofer ON or OFF.

**4** After setting is completed, press the **SETUP** button to return to normal mode.

NOTES
- *Initial mode is "Subwoofer ON."*
- *Set to "Subwoofer OFF" unless the subwoofer is used.*
- *When the subwoofer is turned on, the subwoofer output level can be adjusted. For more details, refer to the Adjusting Volume/Balance/Fader.*

Adjusting Volume/Balance (Between Left and Right)/Fader (Between Front and Rear)

1 Press the **MODE** (Audio Control) knob repeatedly to choose the desired mode. Each press changes the modes as follows:

$$\longrightarrow VOL \longrightarrow BAL \longrightarrow FAD \longrightarrow$$

NOTES
- *If the ∨ or ∧ button is not pressed in 5 seconds after selecting the BALANCE, or FADER mode, the unit automatically returns to the VOLUME mode.*
- *If the subwoofer or BBE modes are ON, their levels can also be adjusted using the MODE button.*

2 Press the ∨ and ∧ buttons until the desired sound is obtained in each mode.

Audio Mute Function

Activating this function will instantly lower the volume level by 20 dB.

1 Press the **MUTE** button to activate the MUTE mode. The audio level will decrease by about 20 dB.
Pressing the MUTE button again will bring the audio back to its previous level.

Basic Operation

SOURCE   BAND   DISP   ∧   BBE

I◀◀ DN

▶▶I UP

SETUP

BASS.C   TREBLE.C   ∨
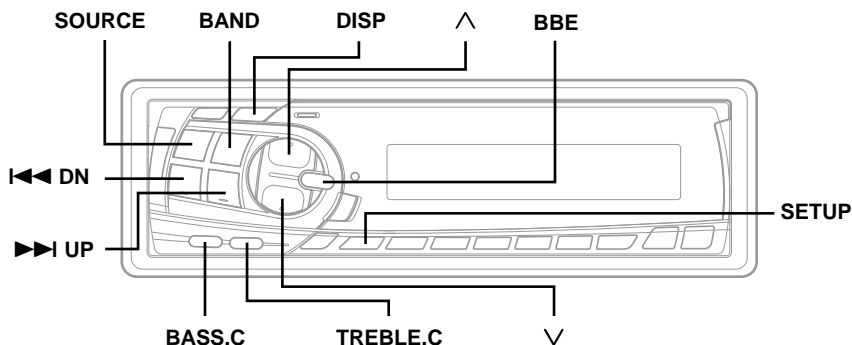
Selecting BBE Mode

The BBE (Barcus Berry Electronics) processor installed in this unit is designed to correct the phase distortion inherent in most loudspeaker designs. Ensuring the phase integrity of the signal driving the speakers improves the accurate reproduction of the sound.

1 Press and hold the **BBE** button for at least 2 seconds to turn BBE on.
Each press toggles between the BBE on and off modes.

2 In **BBE** mode, press the **BBE** button to switch to the BBE adjusting mode.

NOTE
In BBE adjusting mode, wait 5 seconds without pressing any button. The BBE adjusting mode is turned OFF.

3 To change to a desired BBE level, press the ∨ or ∧ buttons.
The BBE level can be changed from +1 to +3.

Setting the Bass Control

You can change the Bass Frequency emphasis to create your own tonal preference.

1 Press the **BASS C.** button to turn on the Bass setting mode.

2-1 Setting the Bass frequency:
Press the I◀◀ **DN** or ▶▶I **UP** button to select the desired Bass center frequency.
    60Hz ↔ 80Hz ↔ 100Hz ↔ 200Hz

Emphasizes the displayed Bass frequency ranges.

2-2 Setting the Bass Band Width (Q-Factor):
Press the **BAND** button to select the desired Bass Band Width.

⟶ WIDE1 → WIDE2 → WIDE3 → WIDE4 ⟶
    (Wide)⟵................................⟶ (Narrow)

Changes the displayed frequency's band width to wide or narrow.

2-3 Setting the Bass Level:
Press the ∨ or ∧ button to select the desired Bass Level (-7~+7).
You can emphasize or weaken the bass frequency.

NOTES
• If no buttons are pressed within 5 seconds, the Bass control setting will be turned off automatically.
• The settings of the Bass and Treble will be individually memorized for each source (FM, AM and CD) until the setting is changed. Depending on the connected devices, some functions and display indications do not work.
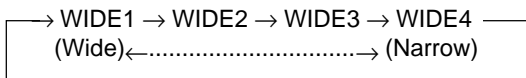
Setting the Treble Control

You can change the Treble Frequency emphasis to create your own tonal preference.

1 Press the **TREBLE C.** to turn on the Treble setting mode.

2-1 Setting Treble frequency:
Press I◀◀ **DN** or ▶▶I **UP** button to select the desired Treble center frequency.
    10kHz ↔ 12.5kHz ↔ 15kHz ↔ 17.5kHz

Emphasizes the displayed Treble frequency ranges.

2-2 Setting Treble Level:
Press the ∨ or ∧ button to select the desired Treble Level (-7~+7).
You can emphasize the treble frequency.

NOTES
• If no buttons are pressed within 5 seconds, the Treble control setting will be turned off automatically.
• The settings of the Bass and Treble will be individually memorized for each source (FM, AM and CD) until the setting is changed. Depending on the connected devices, some functions and display indications do not work.

Changing Audio Level Display Pattern

1 Press **DISP** button to switch the display pattern.

    ┌→ DISP1 ──→ DISP2 ──→ DISP OFF ─┐
    └─────────────────────────────────┘

DISP1:
Lights the Volume indicator and Audio Level indicator.

Volume indicator

Audio Level indicator
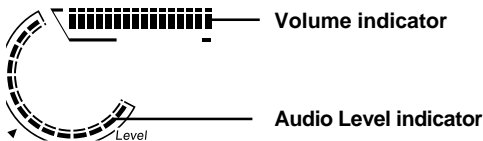
DISP2:
Lights the mode and value bars to show the settings in the Bass engine display.
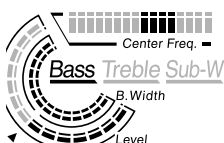
Example setting:
    Bass center frequency:
                100 Hz
    Bass band width: WIDE1
    Bass level: -6

NOTE
The last mode set will remain in effect. The mode and value bars light and show the Bass engine setting.

DISP OFF:
Turns off the light in Bass engine display.
If you set DISP OFF, the Volume indicator, Audio Level indicator, and Bass engine displays are not lit at all times.
To light them, press the DISP button to exit DISP OFF.

NOTE
If no buttons are pressed within 5 seconds, the display will return to normal mode automatically.

Setting the AUX Mode

You can input TV/video sound by connecting an optional "M-Bus V-Link" (M-Bus/RCA interface cable KCM-122B) to this component.

1 Press and hold the **SETUP** button for at least 3 seconds.

2 Press the I◀◀ **DN** or ▶▶I **UP** button to select the AUX mode.

3 Press the **BAND** button to toggle the mode between AUX ON and AUX OFF.

4 Press the **SETUP** button to return to normal mode.

5 To adjust the volume, etc., first press the **SOURCE** button and select the AUX mode, then make the necessary adjustment.

    ┌→ TUNER → CD → AUX ┐
    └───────────────────┘

NOTE
When AUX ON is selected, a CD Changer cannot be used.

Basic Operation

CLK   ZERO   HOUR   MIN
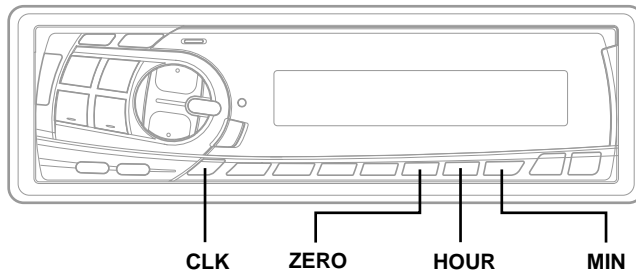
Displaying Time

1 Press the **CLK** (clock) button repeatedly until the clock time is displayed.
Each press changes the modes as follows:

Radio/Changer modes

Radio frequency or Playing time mode	↔	Clock priority mode

CD Player mode

→ Playing time mode → Clock priority mode → DISC TEXT mode →
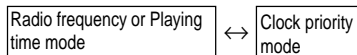
TRACK TEXT mode ←
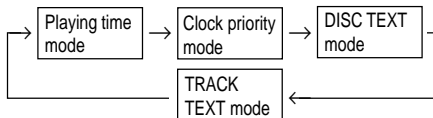
NOTE
Selecting any tuner or CD function while in the clock priority mode will interrupt the time display momentarily. The function selected will be displayed for about 5 seconds before the time returns to the display.

Setting Time

1 While the clock time is displayed, press and hold the **CLK** (clock) button for at least 3 seconds. The time indication will begin to blink.

2 Press the **ZERO** button while the time indication is blinking to set seconds to "0".

3 Press the **HOUR** button to adjust the hours while the time indication is blinking.

4 Press the **MIN** button to adjust the minutes while the time indication is blinking.
The time indication will stop blinking 5 seconds after the last adjustment. The time will automatically be set.

Radio Operation

SOURCE TUNE BAND

I◄◄ DN ►►I UP
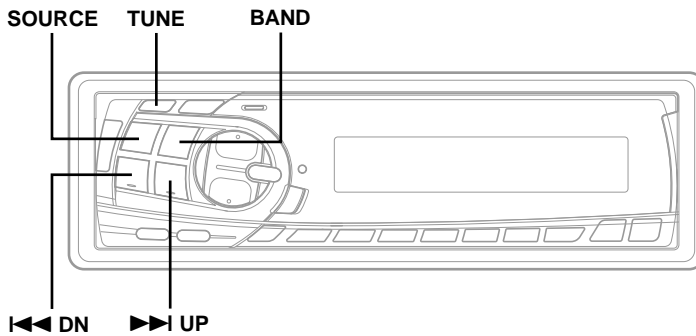
Manual Tuning

1 Press the **SOURCE** button until a radio frequency appears in the display.

2 Press the **BAND** button repeatedly until the desired radio band is displayed.
Each press changes the band:

→ F1 (FM1) → F2 (FM2) → AM →

3 Press the **TUNE** button repeatedly until "DX SEEK" and "SEEK" disappear from the display.

NOTE
The initial mode is DX SEEK.

4 Press the I◄◄ **DN** or ►►I **UP** button to move downward or upward one step respectively until the desired station frequency is displayed.

NOTE
The ST indicator appears on the display when a Stereo FM station is tuned in.

Automatic Seek Tuning

1 Press the **SOURCE** button until a radio frequency appears in the display.

2 Press the **BAND** button repeatedly until the desired radio band is displayed.
Each press changes the band:

→ F1 (FM1) → F2 (FM2) → AM →

3 Press the **TUNE** button to illuminate the DX and SEEK indicators in the display.
With the DX (Distance) mode activated, both strong and weak stations will be tuned in the Auto-Seek operation.
Press again to return to the local mode. The DX indicator will turn off and the SEEK indicator will remain illuminated. Now, only strong stations will be tuned.

4 Press the I◄◄ **DN** or ►►I **UP** button to automatically seek for a station downward or upward respectively.
The unit will stop at the next station it finds. Press the same button again to seek the next station.

Radio Operation

Preset buttons (1 through 6)
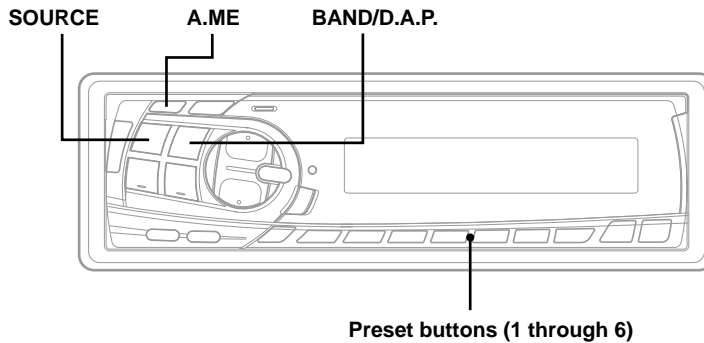
Manual Storing of Station Presets

1 Select the radio band and tune in a desired radio station you wish to store in the preset memory.

2 Press and hold any one of the **Preset buttons (1 through 6)** for at least 2 seconds until the station frequency on the display blinks.

3 Press the **Preset** button into which you wish to store the station while the frequency display is blinking (within 5 seconds).
The display stops blinking once the station has been memorized. The display shows the band, preset No. with a triangle ($\equiv$) and station frequency memorized.

4 Repeat the procedure to store up to 5 other stations onto the same band.
To use this procedure for other bands, simply select the band desired and repeat the procedure.
A total of 24 stations can be stored in the preset memory (6 stations for each band; FM1, FM2, AM and D.A.P.).

NOTE
If you store a station in a preset memory which already has a station, the current station will be cleared and replaced with the new station.

Automatic Memory of Station Presets

1 Press the **SOURCE** button to select the radio mode.

2 Press the **BAND** button repeatedly until the desired radio band is displayed.

3 Press and hold the **A. ME** button for at least 2 seconds.
The frequency on the display continues to change while the automatic memory is in progress. The tuner will automatically seek and store 6 strong stations in the selected band. They will be stored into presets 1 to 6 buttons in order of signal strength.
When the automatic memory has been completed, the tuner goes to the station stored in the preset location No. 1.

NOTE
If no stations are stored, the tuner will return to the original station you were listening to before the auto memory procedure began.

Storing into Direct Access Preset (D.A.P.) Band

A combination of radio stations in any band (up to 6 stations) can be manually preset into the D.A.P. band.

1 Press and hold the **D.A.P.** button for more than 2 seconds until the D.A.P. indicator appears.

Press the BAND button to select FM or AM. The selected band will be displayed. To memorize stations onto the D.A.P. band, follow the steps for the Automatic or Manual Storing of Station Presets section above.

NOTE
This function can be used together with the Automatic Memory Preset.

To cancel the D.A.P. mode, press and hold the **D.A.P.** button for more than 2 seconds. The D.A.P. indicator will turn off.

Tuning to Preset Stations

1 Press the **SOURCE** button to select the radio mode.

**2** Press the **BAND** button repeatedly until the desired band is displayed.

To select the D.A.P. band, press and hold the D.A.P. button for more than 2 seconds until the D.A.P. indicator appears in the display.

3 Press the station **Preset** button that has your desired radio station in memory. The display shows the band, preset number with a triangle and frequency of the station selected.

CD Player Operation

SOURCE   **▶/ll**   **Disc Select buttons (1 through 6)**

I◀◀ DN   **▶▶I UP**   **TITLE**   **M.I.X.**   **REPEAT**   **SCAN**   **▲**
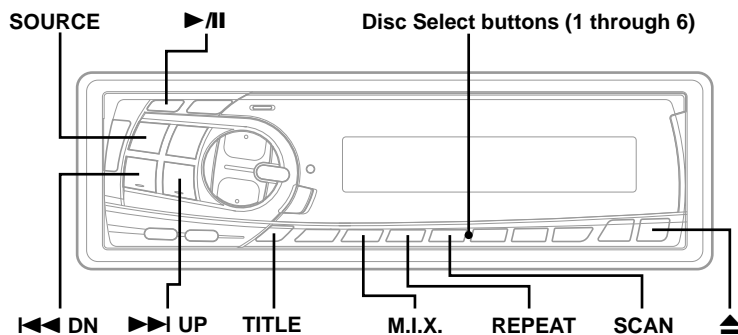
Opening and Closing the Movable display

1 Press the ▲ button.
The movable display will open.
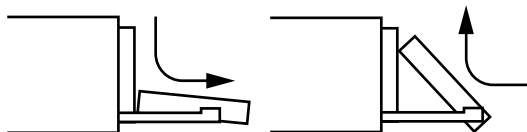
(Movable display fully opened)

To close the movable display, press the ▲ button again.
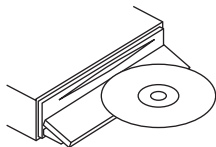The movable display will close.

NOTES
- *Do not apply shock to the movable display when it is open as it may result in malfunction of the unit.*
- *The display may be dim during low temperatures and immediately after turning on the power. The brightness will return to normal as time elapses.*
- *The display will stop at the set angle when closing.*

CAUTION
Keep hands (or any other object) away from the display while it is opening or closing to avoid damage or injury. The back of the movable display will get very warm under normal operating conditions. This is not a malfunction. Do not touch.

Playback

1 Press the ▲ button.
The movable display will open.

Insert a disc with the label side facing up.

2 Insert a disc with the label side facing up.
The disc will be pulled into the unit automatically.
The movable display will close and playback will begin.
When a disc is already inserted, press the **SOURCE** button to switch to the CD mode.
The mode will change every time the button is pressed.

$$\longrightarrow \text{TUNER} \longrightarrow \text{CD} \longrightarrow \text{CD CHANGER} * \longrightarrow$$
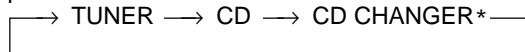
(* Only when the CD changer is connected)

3 To pause playback, press the ▶/ll button.
Pressing the ▶/ll button again will resume playback.

4 To eject the disc, press the ▲ button.
NOTES
- *Three-inch (8cm) CD's can be used.*
- *If the CD does not eject, press ▲ button again for more than 3 seconds.*
- *Only compact discs containing the mark shown can be used.*

- *We cannot fully guarantee the playback of CD-R (CD-Recordable). You cannot playback CD-RW (CD-ReWritable) on this unit.*

Music Sensor (Skip)

1 Momentarily press the I◀◀ **DN** button once during CD play to return to the beginning of the current track. If you wish to access the beginning of a track further back, repeatedly press until you reach the desired track.

Press the ▶▶I **UP** button once to advance to the beginning of the next track. If you wish to access the beginning of a track further ahead, press repeatedly until the desired track is reached.
NOTE
The music sensor feature is functional in the play or pause mode.

Fast Forward and Backward

1 Press and hold the ◄◄ **DN** or ►►I **UP** button to quickly move backward or forward until you reach the desired section of the track.

Repeat Play

1 Press the **REPEAT** button to play back repeatedly the track being played.
The RPT indicator appears and the track will be played repeatedly.

Press the **REPEAT** button again and select OFF to deactivate the repeat play.

NOTE
If a CD Changer is connected and the RPT ALL mode is selected, the unit repeatedly plays back all tracks on the disc selected.

$$\rightarrow \text{RPT} \rightarrow \text{RPT ALL} \rightarrow \text{OFF}$$

NOTE
In case a 6-disc CD changer is connected:
In CD changer mode, press the "F" button to illuminate the "F" indicator and go to step 1.

M.I.X. (Random Play)

1 Press the **M.I.X.** button in the play or pause mode.
The M.I.X. indicator will illuminate and the tracks on the disc will be played back in a random sequence. After all the tracks on the disc have been played back once, the player will begin a new random sequence play until the M.I.X. mode is cancelled.

To cancel M.I.X. play, press the **M.I.X.** button again to turn off the M.I.X.

NOTE
In case a 6-disc CD changer is connected:
In CD changer mode, press the "F" button to illuminate the "F" indicator and go to step 1.

Scanning Programs

1 Press the **SCAN** button to activate the Scan mode.
The first 10 seconds of each track will be played back in succession.

To stop scanning, press the **SCAN** button and deactivate the Scan mode.

NOTE
In case a 6-disc CD changer is connected:
In CD changer mode, press the "F" button to illuminate the "F" indicator and go to step 1.

Displaying and Scrolling CD Text

While playing the audio CD with CD Text, the disc and track names can be displayed and scrolled.

1 In CD mode, press the **TITLE** button repeatedly to display Disc Text or Track Text.

NOTE
If your CD has no Text Information, NO TEXT appears.

2 Press and hold the **TITLE** button for at least 3 seconds to scroll the information stored on the disc.
After scrolling, the display returns to normal mode.

NOTE
SCROLL: the display is scrolled only when a disc is loaded or when a track is changed and when the power turn on during CD mode on this unit.

Controlling CD Changer (Optional)

If an optional Alpine 6-disc CD Changer is connected to the 8-pin DIN connector (M-Bus) of the CDM-7871, you can control the CD changer using the CDM-7871.

NOTE
The CD controls on the CDM-7871 for the CD changer operation are functional only when the CD Changer is interconnected with the CDM-7871.

1 Press the **SOURCE** button to activate the CHANGER mode.
The display shows the "Changer", disc number and track number.

2 Press the **Disc Select buttons (1 through 6)** corresponding to one of the discs loaded in the CD Changer. The selected disc number appears in the display and CD playback starts.

NOTES
- *After selecting the desired disc, you can operate in the same way as for the CD player.*
  For details, please see the CD Player Operation section.
- *If the "F" indicator is illuminated the Disc Select buttons become nonfunctional.*

Information

In Case of Difficulty

If you encounter a problem, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected or consult your authorized Alpine dealer.

Basic

No function or display.
- Vehicle's ignition is off.
  - If connected following instructions, the unit will not operate with the vehicle's ignition off.
- Improper power lead connections.
  - Check power lead connections.
- Blown fuse.
  - Check the fuse on the battery lead of the unit; replace with the proper value if necessary.
- Internal micro-computer malfunctioned due to interference noise etc.
  - Press the Reset switch with a ballpoint pen or other pointed article.

Radio

Unable to receive stations.
- No antenna or open connection in cable.
  - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.
- You are in a weak signal area.
  - Make sure the tuner is in the DX mode.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
  - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- The antenna may not be the proper length.
  - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.

Broadcast is noisy.
- The antenna is not the proper length.
  - Extend the antenna fully; replace it if it is broken.
- The antenna is poorly grounded.
  - Make sure the antenna is grounded properly at its mounting location.

CD

CD Player/Changer not functioning.
- Out of operating temperature range +50°C (+120°F) for CD.
  - Allow the vehicle's interior (or trunk) temperature to cool.

CD playback sound is wavering.
- Moisture condensation in the CD Module.
  - Allow enough time for the condensation to evaporate (about 1 hour).

CD insertion not possible.
- A CD is already in the CD player.
  - Eject the CD and remove it.
- The CD is being improperly inserted.
  - Make sure the CD is being inserted following instructions in the CD Player Operation section.

Unable to fast forward or backward the CD.
- The CD has been damaged.
  - Eject the CD and discard it; using a damaged CD in your unit can cause damage to the mechanism.

CD playback sound skips due to vibration.
- Improper mounting of the unit.
  - Securely re-mount the unit.
- Disc is very dirty.
  - Clean the disc.
- Disc has scratches.
  - Change the disc.
- The pick-up lens is dirty.
  - Do not use a commercial abailable lens cleaner disc. Consult your nearest ALPINE dealer.

CD playback sound skips without vibration.
- Dirty or scratched disc.
  - Clean the disc; damaged disc should be replaced.

Error displays (built-in CD player only)
- Mechanical error
  - Press the ▲ button. After the error indication disappears, insert the disc again. If the above-mentioned solution does not solve the problem, consult your nearest ALPINE dealer.

Indication for CD Changer

HI TEMP

- Protective circuit is activated due to high temperature.
  - The indicator will disappear when the temperature returns to within operation range.

ERROR - 01

- Malfunction in the CD Changer.
  - Consult your Alpine dealer. Press the magazine eject button and pull out the magazine.
    Check the indication. Insert the magazine again.
    If the magazine cannot be pulled out, consult your Alpine dealer.
- Magazine ejection not possible.
  - Press the magazine eject button. If the magazine does not eject, consult your Alpine dealer.

NO MAGZN

- No magazine is loaded into the CD Changer.
  - Insert a magazine.

NO DISC

- No indicated disc.
  - Choose another disc.

Specifications

FM TUNER SECTION

Tuning Range	87.7 – 107.9 MHz
Mono Usable Sensitivity	9.3 dBf (0.8 µV/75 ohms)
50 dB Quieting Sensitivity	13.5 dBf (1.3 µV/75 ohms)
Alternate Channel Selectivity	80 dB
Signal-to-Noise Ratio	65 dB
Stereo Separation	35 dB
Capture Ratio	2.0 dB

AM TUNER SECTION

Tuning Range	530 – 1,710 kHz
Sensitivity (IEC Standard)	22.5 µV/27 dB

CD PLAYER SECTION

Frequency Response	5 – 20,000 Hz (±1 dB)
Wow & Flutter (% WRMS)	Below measurable limits
Total Harmonic Distortion	0.008% (at 1 kHz)
Dynamic Range	95 dB (at 1 kHz)
Signal-to-Noise Ratio	105 dB
Channel Separation	85 dB (at 1 kHz)

GENERAL

Power Requirement	14.4 V DC (11–16 V allowable)
Maximum Power Output	45 W × 4
Maximum Pre-Output Voltage	2 V/10 k ohms
Maximum Subwoofer Output Voltage	4 V/10 k ohms
Bass	±14 dB at 60 Hz
Treble	±14 dB at 10 kHz
Weight	1.5 kg (3 lbs. 5 oz)

CHASSIS SIZE

Width	178 mm (7")
Height	50 mm (2")
Depth	155 mm (6-1/8")

NOSEPIECE SIZE

Width	170 mm (6–3/4")
Height	46 mm (1-13/16")
Depth	24 mm (15/16")

Due to continuous product improvement, specifications and design are subject to change without notice.

Installation and Connections

Before installing or connecting the unit, please read the following and pages 2 and 3 of this manual thoroughly for proper use.

⚠ Warning

MAKE THE CORRECT CONNECTIONS.

Failure to make the proper connections may result in fire or product damage.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.

(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.

Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.

Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.

DO NOT SPLICE INTO ELECTRICAL CABLES.

Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.

When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.

Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

KEEP SMALL OBJECTS SUCH AS BOLTS OR SCREWS OUT OF THE REACH OF CHILDREN.

Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR GEARSHIFT.

Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

⚠ Caution

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.

The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.

Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.

Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wires insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.

Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

Precautions

- Be sure to disconnect the cable from the (–) battery post before installing your CDM-7871. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the color coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the CDM-7871 to the fuse box, make sure the fuse for the intended circuit of the CDM-7871 has the appropriate amperage. Failure to do so may result in damage to the unit and/or the vehicle. When in doubt, consult your ALPINE dealer.
- The CDM-7871 uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized ALPINE dealer for assistance.
- Be sure to connect the speaker (–) leads to the speaker (–) terminal. Never connect left and right channel speaker cables to each other or to the vehicle body.

IMPORTANT

Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number plate is located on the bottom of the unit.

SERIAL NUMBER: _____
INSTALLATION DATE: _____
INSTALLATION TECHNICIAN: _____
PLACE OF PURCHASE: _____

Installation

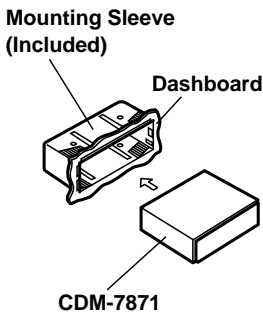**Metal plate**

Detachable Front panel
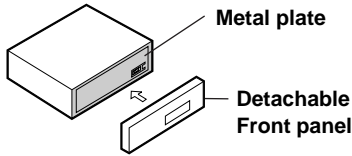
Caution

When you install this unit in your car, do not remove the Detachable Front Panel.
If the Detachable Front Panel is removed during installation, you might press too hard and warp the metal plate that holds it in place.

1

Mounting Sleeve (Included)

Dashboard

CDM-7871

Remove the Detachable Front Panel (refer to page 4). Slide mounting sleeve from main unit (see "Removal" on this page).
Slide the mounting sleeve into the dashboard.

## 2

Screw

Hex Nut (M5)

** **

Bolt Stud

Metal Mounting Strap

Ground Lead

Chassis

CDM-7871
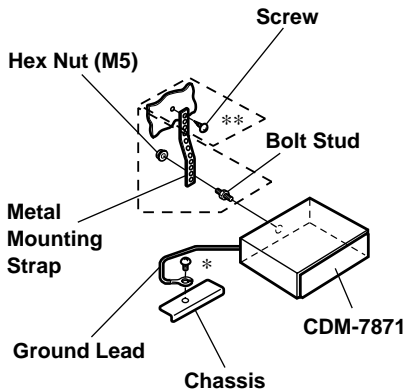
Reinforce the head unit with the metal mounting strap (not supplied). Secure the ground lead of the unit to a clean metal spot using a screw (∗) already attached to the vehicle's chassis.

NOTE

For the screw marked ∗∗*, use an appropriate screw for the chosen mounting location.*

Connect each input lead coming from an amplifier or equalizer to the corresponding output lead coming from the left rear of the CDM-7871. Connect all other leads of the CDM-7871 according to details described in the CONNECTIONS section.

3

Lock Pin
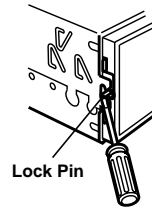
Slide the CDM-7871 into the dashboard. When the unit is in place, make sure the locking pins are fully seated in the down position. This can be done by pressing firmly in on the unit while pushing the locking pin down with a small screwdriver. This ensures that the unit is properly locked and will not accidentally come out from the dashboard. Install the Detachable Front Panel.

Removal
1 Remove the DETACHABLE FRONT PANEL.
2 Use a small screwdriver (or similar tool) to push the locking pins to the "up" position (see above drawing). As each pin is unlocked, gently pull out on the unit to make sure it does not re-lock before unlocking the second pin.
3 Pull the unit out, keeping it unlocked as you do so.

<JAPANESE CAR>

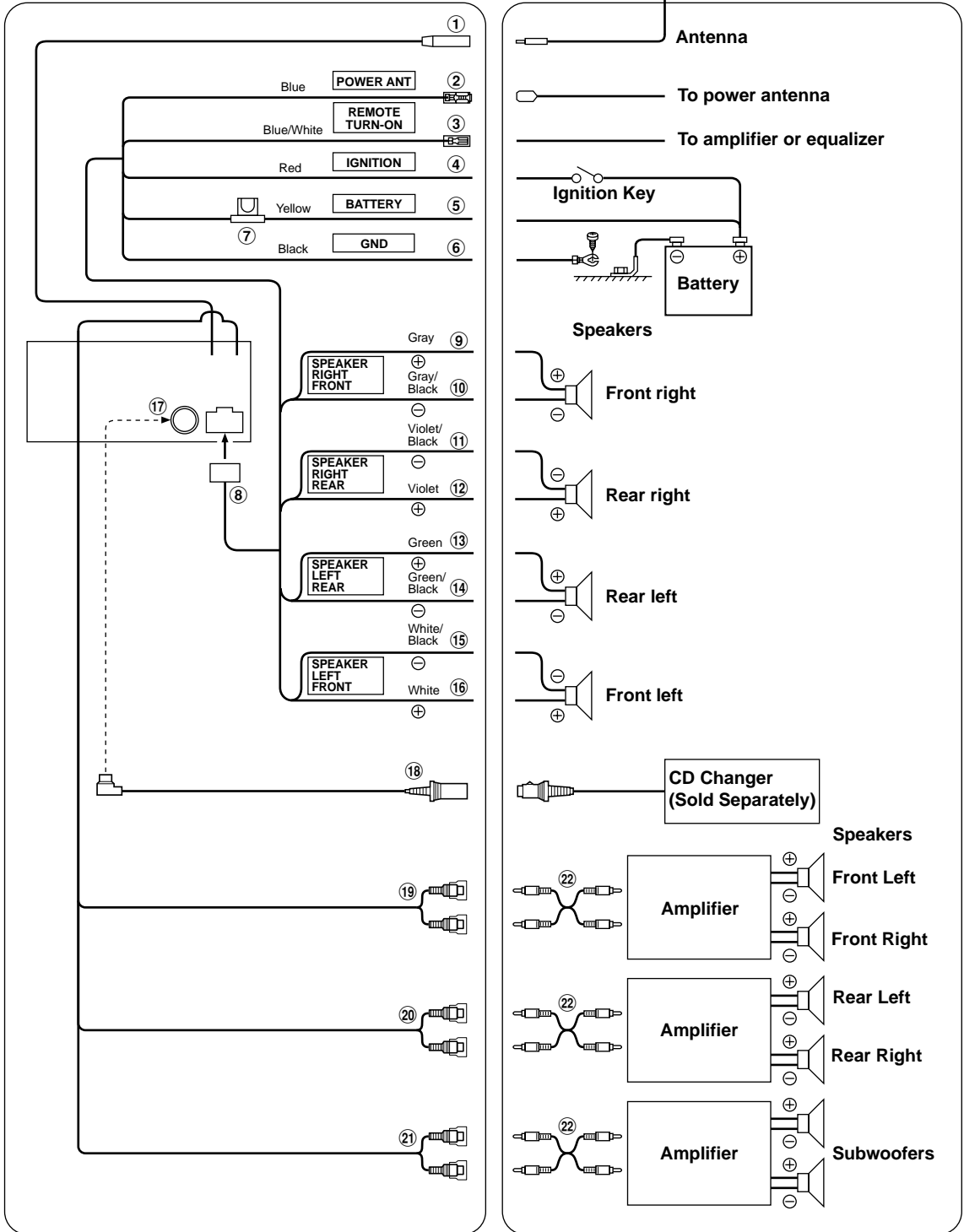

Face Plate

Screws (M5 × 8) (Included)

CDM-7871

Ground Lead

Mounting Bracket
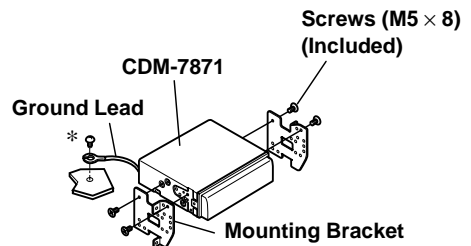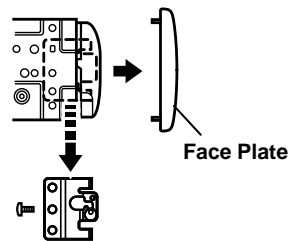
NOTE

Secure the ground lead of the unit to a clean metal spot using a screw (∗) already attached to the vehicle's chassis.

17-*EN*

Installation and Connections

Connections

Blue — POWER ANT ②

Blue/White — REMOTE TURN-ON ③

Red — IGNITION ④

Yellow — BATTERY ⑤

Black — GND ⑥

⑦

①

⑰

⑧

Gray ⑨
SPEAKER RIGHT FRONT
⊕ Gray/Black ⑩
⊖

Violet/Black ⑪
SPEAKER RIGHT REAR
⊖
Violet ⑫
⊕

Green ⑬
SPEAKER LEFT REAR
⊕ Green/Black ⑭
⊖

White/Black ⑮
SPEAKER LEFT FRONT
⊖
White ⑯
⊕

⑱

⑲

⑳

㉑

Antenna

To power antenna

To amplifier or equalizer

Ignition Key

Battery

Speakers

⊕ ⊖ Front right

⊖ ⊕ Rear right

⊕ ⊖ Rear left

⊖ ⊕ Front left

CD Changer (Sold Separately)

Speakers

㉒ Amplifier — ⊕ ⊖ Front Left / ⊕ ⊖ Front Right

㉒ Amplifier — ⊕ ⊖ Rear Left / ⊕ ⊖ Rear Right

㉒ Amplifier — ⊕ ⊖ ⊖ ⊕ Subwoofers

For details on how to set the Subwoofer to ON/OFF, see "Subwoofer On and Off" on page 5.

① Antenna Receptacle

② Power Antenna Lead (Blue)
   Connect this lead to the +B terminal of your power antenna, if applicable.

   NOTE
   This lead should be used only for controlling the vehicle's power antenna. Do not use this lead to turn on an amplifier or a signal processor, etc.

③ Remote Turn-On Lead (Blue/White)
   Connect this lead to the remote turn-on lead of your amplifier or signal processor.

④ Switched Power Lead (Ignition) (Red)
   Connect this lead to an open terminal on the vehicle's fuse box or another unused power source which provides (+)12V only when the ignition is turned on or in the accessory position.

⑤ Battery Lead (Yellow)
   Connect this lead to the positive (+) post of the vehicle's battery.

⑥ Ground Lead (Black)
   Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

⑦ Fuse Holder (15A)

⑧ Power Supply Connector

⑨ Right Front (+) Speaker Output Lead (Gray)

⑩ Right Front (–) Speaker Output Lead (Gray/Black)

⑪ Right Rear (–) Speaker Output Lead (Violet/Black)

⑫ Right Rear (+) Speaker Output Lead (Violet)

⑬ Left Rear (+) Speaker Output Lead (Green)

⑭ Left Rear (–) Speaker Output Lead (Green/Black)

⑮ Left Front (–) Speaker Output Lead (White/Black)

⑯ Left Front (+) Speaker Output Lead (White)

⑰ DIN Connector
   Connect this to the DIN connector on the CD Changer.

⑱ DIN Extension Cable (Sold Separately)

⑲ Front Output RCA Connectors

⑳ Rear Output RCA Connectors
   RED is right and WHITE is left.

㉑ Subwoofer RCA Connectors
   RED is right and WHITE is left.

㉒ RCA Extension Cable (Sold Separately)

   NOTE
   Older Alpine CD Changer came with standard, straight type DIN connectors. In installations where an L-type connector would simplify installation, the Alpine 4910$_{02}$ Adaptor can be used (Sold Separately).

To prevent external noise from entering the audio system.
- Locate the unit and route the leads at least 10cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors. Contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.